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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/886,148	06/22/2001		Kazutaka Inukai	12732-053001	5723
26171	7590	08/26/2004		EXAMINER	
FISH & RI 1425 K STR			•	LIU, MING HUN	
11TH FLOO	•			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005-3500				2675	
				DATE MAILED: 08/26/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/886,148	INUKAI, KAZUTAKA
Office Action Summary	Examiner	Art Unit
	Ming-Hun Liu	2675
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute that the period for reply will, by statute that the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply oly within the statutory minimum of thirty (3f I will apply and will expire SIX (6) MONTHS te, cause the application to become ABANI	be timely filed D) days will be considered timely. from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
	is action is non-final.	
3) Since this application is in condition for allows closed in accordance with the practice under	ance except for formal matters	· ·
Disposition of Claims		
4) ☐ Claim(s) 1-82 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 2-46, 48-55, 57- 64, 66-73 and 75-8. 6) ☐ Claim(s) 1,47,56,65 and 74 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/s	awn from consideration. 2 is/are allowed.	
Application Papers		
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on is/are: a) ☑ acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	cepted or b) objected to by drawing(s) be held in abeyance. ction is required if the drawing(s)	See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applority documents have been received in Applority documents have been received.	lication No ceived in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>2 and 5</u>. 	Paper No(s)/M	mary (PTO-413) lail Date mal Patent Application (PTO-152)

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 6/22/01 is present, however the references are missing from the first filing. Please include copies of the references cited in the first IDS in the next office correspondence.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,229,508 to Kane.

In reference to claim 1, Kane teaches an EL display matrix with a plurality of pixels, controlled by at least one of the gate signals lines (figure 3). The plurality of pixels comprise a first TFT (TFT number 350) for switching, a second TFT for switching (TFT number 330 and column 3, lines 57-62), a TFT for erasing (TFT number 340), and a TFT for driving (TFT number 320) for driving EL element (item 304). The erase TFT is controlled by voltage applied to (k+3)th gate line (item 380). Switching of first TFT is controlled by (k+2)th gate line, and switching of the second TFT is controlled by the (k+1)th gate line. The gate electrode of TFT

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for EL driving is connected when both selecting TFTs (330 and 350) are on. It can be seen from figure 4 that the when data is not being driven then the erase can be on. And naturally the LEDs emit light when the driving is on and not when they are off (column 1, lines 43-45).

Kane teaches an invention very similar to the one being claimed, however the gate line ordering is slightly different from the claimed invention. The ordering offered by the disclosed invention is Erase, switch 1, switch 2, where as the embodiment described by Kane falls in the order of switch 1, Erase, switch 2. As one skilled in the art clearly knows the ordering of the gate line can be easily modified it is the connections as opposed to the ordering of the gate lines that are important. The line-ordering pattern that resembles the claimed invention can be seen in the embodiment outlined in figure 7. Furthermore, one skilled in the art understands that the crux of the innovation claimed by the applicant is the double usage of the erase line and not the trivial ordering of gate lines. Kane teaches this innovative use of erase line in the column 3, lines 57-62.

In reference to claims 47 and 56, Kane does not limit the exact type of transistors that are used, leaving the disclosure open to the well-known n or p type transistors.

In reference to claim 65, Kane teaches on column 9, that the driving electrode is operated in the linear region.

In reference to claim 74, Kane's invention is used to improve display technologies on computer and video systems (column 1, lines 32-37).

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Allowable Subject Matter

4. Claims 2-46, 48-55, 57- 64, 66-73 and 75-82 are allowed.

5. The following is an examiner's statement of reasons for allowance: The applicant's invention is unique in the sense that it uses two selecting gates where one selecting gate selection line is shared with an erase selection line. Kane's invention is similar to the claimed invention, however Kane does not have the specific TFT connections outlined in detail by the applicant. Most apparent difference between the two inventions is the placement of the two selecting transistors. The applicant places the two transistors in series where as Kane's transistors are connected through the erase gate. Even after taking the broadest interpretation of the applicant's claims, the examiner failed to find prior art that anticipated the applicant's inventions. Since independent claims 2-5 and 15-18 are allowable, their respective dependent claims are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent 6,384,804 to Dodabalapur et al.

US Patent 5,973,311 to Sauer.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ming-Hun Liu whose telephone number is 703-305-8488. The examiner can normally be reached on Mon-Fri.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ming-Hun Liu

DENNIS-DOON CHOW
PRIMARY FXAMINER